

Notice of Allowability

Application No.

10/764,976

Examiner

Donghai D. Nguyen

Applicant(s)

ECKBLAD ET AL.

Art Unit

3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to telephone interview on October 12, 2005.
2. ☒ The allowed claim(s) is/are 1-16 and 21-26, renumbered as 1-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 1/26/04; 6/8/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-16 and 21-26, drawn to a mounting system, classified in class 29, subclass 739.
 - II. Claims 17-20, drawn to a method, classified in class 29, subclass 832.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions Group II and Group I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the invention of Group I, apparatus can be used to practice another and materially different process such as permanently affixed the pressure blocks to the base portion of the heat sink.
3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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5. During a telephone conversation with Carrie A. Boone on October 12, 2005 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-16 and 21-26. Affirmation of this election must be made by applicant in replying to this Office action. Claims 17-20 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

EXAMINER'S AMENDMENT

7. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Carrie A Boone on October 13, 2005.

The application has been amended as follows:

In the Specification:

"stop 250" (spec. page 12, line 6) has been changed to: --stop 25--.

In the Claims:

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a) “transverse to” (claim 1, line 7 and line 9; and claim 21, line 8 and line 10) has been changed to: --transverse through--.

b) “the package” (claim 1, line 17) has been changed to: --the processor package--.

c) “the plurality of pins further comprising: a channel disposed beneath the tip” (claim 6, lines 1-2) has been changed to: --each pin of the plurality of pins further comprising: a channel disposed beneath the tip of each pin--

d) “the teeth” (claim 11, line 5; claim 16, line 6, and claim 26, line 5) has been changed to: --the gear teeth--.

e) “the gear teeth” (claim 11, line 6; claim 16, line 6, and claim 26, line 6) has been changed to: --the teeth of the ratchet gear--.

f) Non-elected claims 17-20 have been canceled.

8. The following is an examiner’s statement of reasons for allowance: the prior art references as a whole fails to teach or suggest the mounting system for mounting a heat sink on a motherboard as recited in details in claims 1 and 21. At best the US Patents 6,473,306; 6,563,716; 6,778,395 and 6,948,554 disclose a clip, retainer or fastener mechanism for attaching a heat sink on the PCB but lacking of the four blocks permanently affixed to the base portion of the heat sink and a pair of scoops in combination with a ratchet assembly as required by each of the claims 1 and 21 therefrom.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue


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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghai D. Nguyen whose telephone number is (571)-272-4566.

The examiner can normally be reached on Monday-Friday (9:00-6:00).

DN
October 13, 2005



MINH TRINH
PRIMARY EXAMINER